

L15 ANSWER 12 OF 25 MEDLINE on STN
 AN 2000404489 MEDLINE
 TI Induction of **cytotoxic T lymphocytes** from
 peripheral blood of human histocompatibility antigen (HLA
)-A31(+) **gastric cancer** patients by in vitro
 stimulation with antigenic peptide of signet ring cell carcinoma.
 SO JAPANESE JOURNAL OF CANCER RESEARCH, (2000 Jun) 91 (6) 616-21.
 Journal code: 8509412. ISSN: 0910-5050.
 AU Nabeta Y; Sahara H; Suzuki K; Kondo H; Nagata M; Hirohashi Y; Sato Y; Wada
 Y; Sato T; Wada T; Yamashita T; Kikuchi K; Sato N
 AB Antigenic peptides have been used as a cancer vaccine in melanoma patients
 and have led to a drastic regression of metastatic tumors. However, few
 antigens have been identified in non-melanoma tumors. We recently
 purified a new natural antigenic peptide, designated F4. 2, by biochemical
 elution from a human gastric signet cell carcinoma cell line and showed
 that it is recognized by an autologous human histocompatibility antigen (**HLA**)
 -A31-restricted cytotoxic T lymphocyte (CTL) clone. Here we
 describe in vitro induction of F4. 2-specific CTLs from peripheral blood T
 lymphocytes of **HLA-A31(+) gastric cancer**
 patients. The T cells of seven **HLA-A31(+)** patients with
gastric cancers were stimulated in vitro by F4.2-pulsed
 autologous dendritic cells which had been induced from peripheral blood of
 each patient by incubation in the presence of granulocyte macrophage
 colony-stimulating factor (GM-CSF) and IL-4. We tested the cytotoxicity
 of the T cells against F4.2-loaded C1R-A*31012 by a 6-h (51)Cr release
 assay after 3 stimulations with F4.2-pulsed dendritic cells.
 F4.2-specific cytotoxicity was detectable in the stimulated T cells from
 two of the seven **HLA-A31(+)** patients. Further, both
 F4.2-specific CTLs also lysed the **gastric cancer** cell
 line, HST-2, from which F4.2 was derived. These results suggest that F4.2
 peptide may be useful as an **HLA-A31-restricted** peptide vaccine
 in certain patients with **gastric cancer**.

L15 ANSWER 20 OF 25 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN
 AN 2002:441160 SCISEARCH
 TI A gene encoding human gastric signet ring cell carcinoma antigen
 recognized by **HLA-A31-restricted cytotoxic T lymphocytes**
 SO JOURNAL OF IMMUNOTHERAPY, (MAY-JUN 2002) Vol. 25, No. 3, pp. 235-242.
 Publisher: LIPPINCOTT WILLIAMS & WILKINS, 530 WALNUT ST, PHILADELPHIA, PA
 19106-3621 USA.
 ISSN: 1053-8550.
 AU Sahara H; Nabeta Y; Torigoe T; Hirohashi Y; Ichimiya S; Wada Y; Takahashi
 N; Jimbow K; Yajima T; Watanabe N; Kikuchi K; Sato N (Reprint)
 AB We previously reported acid-extracted natural antigenic peptide
 (F4.2[YSWMDISCWI]) of a gastric signet ring cell carcinoma HST-2 cells,
 recognized by **HLA-A*31012-restricted autologous cytotoxic T lymphocytes**, TcHST-2 line. In this
 study, the full-length cDNA (1101 bp), termed c98, predicting a protein
 composed of 170 amino acids was obtained. Because TcHST-2 cells could lyse
 the **HLA-A31** antigen (+) allogeneic tumor cells that were
 introduced with c98 gene, this gene was suggested to possess antigenicity.
 Beginning at N-terminal 61 amino acid, the N-terminal six amino acid
 sequence that is completely identical to F4.2 was present in c98; however,
 a sequence of four amino acids in C-terminal was not found. Nevertheless,
 this peptide, c98(61-70), seemed to be immunogenic, because cells pulsed
 with c98(61-70) peptide were lysed in a dose-dependent manner by TcHST-2
 cells. The c98 gene was expressed ubiquitously in tumor cells as well as
 in normal tissues. However, some tumor cells, including HST-2 cells,
 expressed this antigen in a high content, and such cells were lysed by
 TcHST-2 cells in the context of **HLA-A31** antigen. However,
 TcHST-2 cells did not lyse cells that expressed lower amounts of c98 than
 HST-2 cells. These data suggested that c98-gene product and/or C98(61-70)
 peptides could be used as a candidate for tumor vaccines in cancer
 immunotherapy.

L6 ANSWER 6 OF 15 MEDLINE on STN
 AN 2000396776 MEDLINE
 TI Eligibility of antigenic-peptide-pre-loaded and fixed adhesive peripheral
 blood cells for induction of **cytotoxic T lymphocytes** from cancer patients with elevated serum levels of
 carcinoembryonic antigen.
 SO JOURNAL OF CANCER RESEARCH AND CLINICAL ONCOLOGY, (2000 Jul) 126 (7)
 383-90.
 Journal code: 7902060. ISSN: 0171-5216.
 AU Kim C H; Todoroki T; Matsumura M; Ohno T
 AB The inducibility of **cytotoxic T lymphocytes**
 (CTL) that react with carcinoembryonic antigen (CEA) was tested in cancer
 patients with elevated (more than 5 ng/ml) serum CEA levels when antigen
 presentation was carried out with paraformaldehyde-fixed adhesive
 peripheral blood mononuclear cells (PBMC) from the patient that had been
 pre-loaded with CEA652(9), an **HLA-A2402**-restricted tumor
 antigenic peptide derived from CEA. By culturing fresh autologous PBMC on
 the fixed cell layer in medium containing interleukin-1, -2, -4 and -6.
 three out of eight patients developed CTL. The CTL from two of these
 patients killed CEA-protein-producing **gastric cancer**
 cells carrying **HLA-A2402** and the cells from the remaining
 patient killed CEA-non-producing stomach cancer cells pre-loaded with
 CEA652(9). The results suggest that a single antigenic peptide on the
 fixed adhesive cells will allow the ex vivo induction of peptide-reactive
 CTL that are easier to handle and allow antigen presentation without
 tedious preculture of the "professional" antigen-presenting
 dendritic-cells.

L13 ANSWER 12 OF 14 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN
AN 96:334473 SCISEARCH
TI INDUCTION OF **CYTOTOXIC T-LYMPHOCYTES** (CTL)
FOR THE SPECIFIC IMMUNOTHERAPY AGAINST COLON AND **GASTRIC-**
CANCER
SO GASTROENTEROLOGY, (**APR 1996**) Vol. 110, No. 4, Supp. S, pp. A617.
ISSN: 0016-5085.
AU YASUTOMI J (Reprint); SODA H; KODA K; SAITO N; SARASHINA H; NAKAJIMA N